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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/648,560

08/25/2003

Terence Edwin Dodgson

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EXAMINER

HA, DAC V

ART UNIT

PAPER NUMBER

2611

MAIL DATE

DELIVERY MODE

07/11/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/648,560

Applicant(s)

DODGSON ET AL.

Examiner

Dac V. Ha

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 April 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

1. This office action is in response to the amendment filed on 04/30/07.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claims 1, 2, 17, 18** are rejected under 35 U.S.C. 102(b) as being anticipated by Womack et al. (US 5,982,819) (hereafter Womack).

Regarding claim 1, Womack discloses all claimed subject matter “A modulating device for modulating and demodulating data for transmission from a first device to a second device, comprising modulating means capable of modulating and demodulating the data according to at least a first and a second modulation technique using common digital modulation components, and a switching means for automatically switching between at least the first and the second modulation techniques” in Abstract; col. 2, line 30-40, wherein the controller (Fig. 1, element 107) discloses “common digital modulation components”; and wherein the teaching of “a switching means” is inherent.

Regarding claims 17, 28, see claim 1 above.

Regarding claim 2, Womack further discloses “a plurality of building blocks, wherein at least one of said building blocks is used for at least one of modulating and demodulating data according to said at least first and second modulation techniques” in Fig. 1, 2, all elements.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 3-16** are rejected under 35 U.S.C. 103(a) as being unpatentable over Womack in view of Admitted Prior Art (APA).

Regarding claim 3, Womack further discloses the claimed subject matter “a programmable finite impulse response filter” (col. 9, line 37); “a look-up table” (Fig. 4, element 401; col. 5, line 64 to col. 6, line 3). Womack differs from the claimed invention in that it doesn’t disclose “a serial-to-parallel converter”. However, the Admitted Prior Art (APA) (instant application, Fig. 5; page 10) discloses that for certain type of modulation signal used, a “serial-to-parallel converter” may be needed. Womack discloses a system, which has flexible resources for adaptively accommodate any type of modulation techniques (Abstract; col. 3, lines 4-5; col. 4, lines 5-6). Therefore, it would have been obvious to one skilled in the art at the time of the invention to easily utilize, i.e. “a serial-to-parallel converter”, as that disclosed in the APA, into Womack when there such a need for accommodate such modulation signal.

Regarding claim 4, Womack further discloses the claimed subject matter “wherein said programmable finite impulse response filter is programmable to a first and a second mode for said first and second modulation techniques, respectively” in col. 9,

lines 33-41. That is, the first mode is when FSK is utilized and FIR used, and the second mode is when the signal utilized is not FSK and FIR is not used in the process.

Regarding claims 5-16, these claimed subject matter would have been easily realized by one skilled in the art as application specific (i.e. as described the APA of the instant application).

Response to Arguments

6. Applicant's arguments filed on 04/30/07 have been fully considered but they are not persuasive.

Applicant has amended all independent claims to include the subject matter "a switching means for automatically switching between at least the first and the second modulation techniques". However, Womack discloses method for effectively utilizing a plurality of modulation schemes. The controller deploys appropriate modulation scheme corresponding to the modulation identifier. These processes occurs automatically. Therefore, Womack implicitly discloses that there must be mechanism changing the configuration in accordance with different modulation schemes. Thus, such amended subject matter should be inherent in the control process disclosed by Womack.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on 571-272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

A handwritten signature in black ink, appearing to read 'Dac V. Ha', with a long horizontal stroke extending to the right.

Dac V. Ha
Primary Examiner
Art Unit 2611